6ES7143-3BH00-0XA0

## **Data sheet**



SIMATIC DP, Basic module BM 143 ET 200ECO: 8 DI/8 DO, 2A; 8xM12, Duplicate assignment, Degree of protection IP65/67; Connection block 6ES7194-3AA00-0.A0 separately order

General information	
Vendor identification (VendorID)	80DCh
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	No
Load voltage 2L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>Reverse polarity protection</li> </ul>	No
Input current	
from supply voltage 1L+, max.	70 mA; Typical
from load voltage 2L+ (without load), max.	60 mA; Typical
Encoder supply	
Number of outputs	8
Type of output voltage	24 V DC
Short-circuit protection	Yes; Electronic
Output current	
Rated value	0.75 A; up to 55°C max. 0.75 A (summation current)
Power loss	
Power loss, typ.	5 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
<ul> <li>Rated value (DC)</li> </ul>	24 V
• for signal "0"	-3 to +5V
● for signal "1"	13 to 30V
Input current	
■ for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3 ms; Typical
— at "1" to "0", max.	3 ms; Typical
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes
<ul> <li>Response threshold, typ.</li> </ul>	4 A; Per channel

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Limitation of inductive shutdown voltage to	2L+ (-44 V)
Controlling a digital input	Yes
Switching capacity of the outputs	40.144
• on lamp load, max.	10 W
Load resistance range	40.0
• lower limit	12 Ω
• upper limit	4 kΩ
Output voltage	01 - (0.0 \)
• for signal "1", min.	2L+ (-0,8 V)
Output current	2 A
• for signal "1" rated value	
• for signal "1" permissible range for 0 to 55 °C, min.	5 mA 2.4 A
<ul> <li>for signal "1" permissible range for 0 to 55 °C, max.</li> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
Parallel switching of two outputs	0.5 IIIA
• for uprating	No
for redundant control of a load	Yes
Switching frequency	103
with resistive load, max.	100 Hz
with resistive load, max.      with inductive load, max.	0.5 Hz; According to IEC 60947-5-1, DC-13
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	4 A; 4 A each for sockets X1, X3, X5, X7 and 4 A each for sockets X2,
	X4, X6, X8; note the current carrying capacity of the cable
Cable length	
<ul><li>unshielded, max.</li></ul>	30 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor),</li> </ul>	1.5 mA
max.	
Interfaces	
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PROFIBUS DP	
	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12
PROFIBUS DP	12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s
PROFIBUS DP	
PROFIBUS DP  • Transmission rate, max.	
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP	Mbit/s
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information	Mbit/s Yes
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms	Mbit/s
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses	Mbit/s Yes
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms	Mbit/s Yes No
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable	Mbit/s Yes No
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED	Mbit/s Yes No Yes
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)	Mbit/s  Yes  No  Yes  Yes
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)	Mbit/s  Yes  No  Yes  Yes  Yes  Yes
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)  • Status indicator digital output (green)  • Channel fault indicator F (red)	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)  • Status indicator digital output (green)  • Channel fault indicator F (red)  Potential separation	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)  • Status indicator digital output (green)  • Channel fault indicator F (red)  Potential separation  between PROFIBUS DP and all other circuit components	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  You  Yes  You  Yes  Yes  You  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)  • Status indicator digital output (green)  • Channel fault indicator F (red)  Potential separation	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  You  Yes  You  Yes  Yes  You  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Channel fault indicator F (red) Potential separation  between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Protocols PROFIBUS DP Interrupts/diagnostics/status information  Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Channel fault indicator F (red)  Potential separation  between PROFIBUS DP and all other circuit components Potential separation digital inputs	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses  • Diagnostic information readable Diagnostics indication LED  • Group error SF (red) • Status indicator digital input (green) • Status indicator digital output (green) • Channel fault indicator F (red)  Potential separation  between PROFIBUS DP and all other circuit components Potential separation digital inputs • between the channels  Potential separation digital outputs • between the channels	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information  Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator f (red) Channel fault indicator F (red)  Potential separation  between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  No  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostics information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Channel fault indicator F (red) Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Permissible potential difference between different circuits	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses  • Diagnostic information readable Diagnostics indication LED  • Group error SF (red) • Status indicator digital input (green) • Status indicator digital output (green) • Channel fault indicator F (red)  Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs • between the channels Potential separation digital outputs • between the channels Potential separation digital outputs • between the channels Permissible potential difference between different circuits Isolation	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  No  No  No  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator f (red) Channel fault indicator F (red) Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between different circuits Isolation Isolation tested with	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  No  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator digital output (green) Channel fault indicator F (red)  Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Permissible potential difference between different circuits Isolation Isolation tested with Degree and class of protection	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  No  No  No  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator f (red) Channel fault indicator F (red) Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between different circuits Isolation Isolation tested with	Mbit/s  Yes  No  Yes  Yes  Yes  Yes  Yes  No  No  No  No  No
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator digital output (green) Channel fault indicator F (red)  Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Permissible potential difference between different circuits Isolation Isolation tested with Degree and class of protection	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  No  No  No  No  No  T5 V DC/60 V AC
PROFIBUS DP  • Transmission rate, max.  Protocols  PROFIBUS DP  Interrupts/diagnostics/status information  Alarms  Diagnoses  • Diagnostic information readable  Diagnostics indication LED  • Group error SF (red)  • Status indicator digital input (green)  • Status indicator digital output (green)  • Channel fault indicator F (red)  Potential separation  between PROFIBUS DP and all other circuit components  Potential separation digital inputs  • between the channels  Potential separation digital outputs  • between the channels  Permissible potential difference  between different circuits  Isolation  Isolation  Isolation tested with  Degree and class of protection  IP degree of protection	Yes  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  No  No  No  No  No  T5 V DC/60 V AC
Protocols PROFIBUS DP Interrupts/diagnostics/status information Alarms Diagnoses Diagnostic information readable Diagnostics indication LED Group error SF (red) Status indicator digital input (green) Status indicator digital output (green) Status indicator f (red) Channel fault indicator F (red)  Potential separation between PROFIBUS DP and all other circuit components Potential separation digital inputs between the channels Potential separation digital outputs between the channels Potential separation digital outputs between the channels Permissible potential difference between different circuits Isolation Isolation tested with Degree and class of protection IP degree of protection connection method / header	Mbit/s         Yes         No         Yes         Yes         Yes         No         No         No         No         T5 V DC/60 V AC         500 V DC         IP65/67

Width	60 mm
Height Depth	210 mm
Depth	28 mm
Weights	
Weight, approx.	210 g

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